## Special tool



## Notes

Test cruise control/Tempomat with adapter only. If other testing and measuring instruments are used, the cruise control/Tempomat may be destroyed. During this test, the cruise control/Tempomat system is tested with the exception of the control unit.

Faults can be found by means of the adapter only if cruise control/Tempomat is permanently not functioning. Complaints such as temporary failure or poor control characteristics (e.g. shaking) cannot be checked with adapter. In such cases, proceed according to programmed repairs.

If testing with adapter indicates a faulty component, check plug connections for good contacting prior to replacement, e.g. the plug sockets should not be widened. Reshape widened plug sockets. Then check respective component once again.

Prior to testing by means of adapter, check battery voltage (> 11 V), stop lamps and speed indication for function. Repair, if required, and check cruise control/Tempomat for function prior to testing with adapter.

## Preparation for test

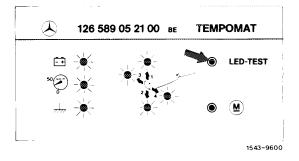
- 1 Remove cover under instrument panel on side of driver.
- 2 Pull 14-point plug from control unit.
- 3 Connect test adapter to 14-point plug.
- 4 Test jacks in 14-point plug, reshape widened bushings.
- 5 Switch on ignition. The following LED readouts will light up, if no fault is indicated.

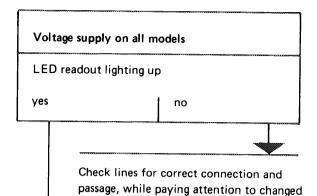
Symbol	Models
Battery	all
km/h	123 with sensor on mechanical speedometer
Ground	107 with engine 103, 116.960 (USA) (116.962 except CH) up to 83, (AUS) 116.964 and 117, 123 with engine 617.95 except (USA) 81, 126 with engine 116.96, (USA) 116.963 except (CH) (SA) up to 83, (AUS) 116.965 and 117

126 589 05 21 00 BE **TEMPOMAT** LED-TEST Θ **⊕** 3 1. 2 🕻 🏅 ⊕

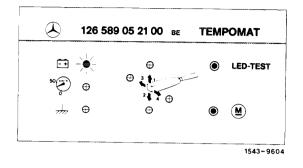
1543-9603

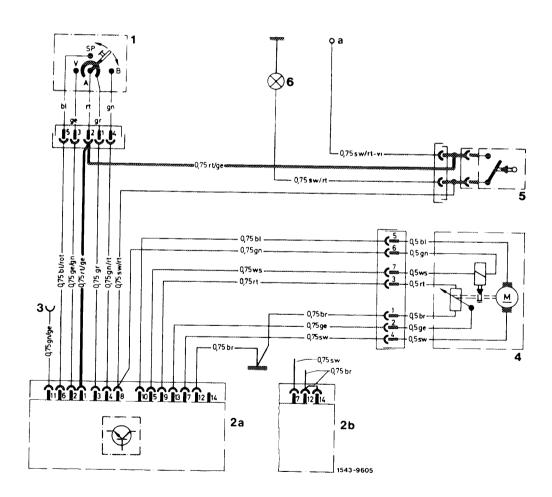
5 Push "LED-TEST" push-button of test adapter and check whether all LED readouts are lighting up. If no LED readout is lighting up check connection of voltage supply and line-up of 14-pole coupler (refer to wiring diagram 54-580).





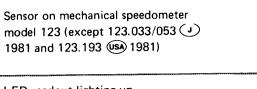
voltage supply (refer to 54-580).





Wiring diagram up to 08/81

- 1 Switch
  2 a Control unit
  2 b Control unit
  5 Stop lamp switch



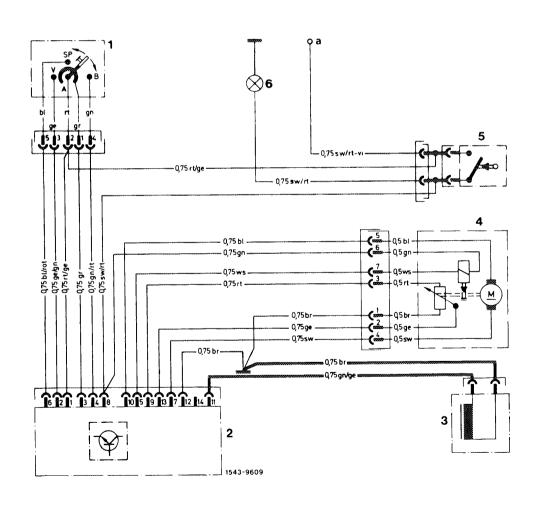
LED readout lighting up

no yes

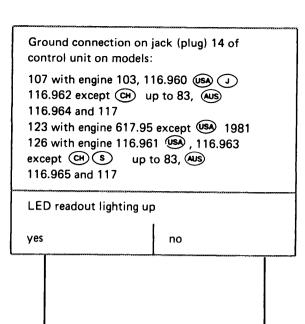
 $(\mathcal{A})$ 126 589 05 21 00 BE **TEMPOMAT** LED-TEST Θ Φ 1543-9608

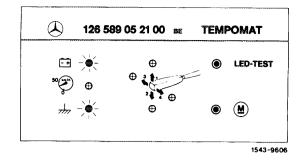
Test lines for correct connection and passage.

Replace sensor.

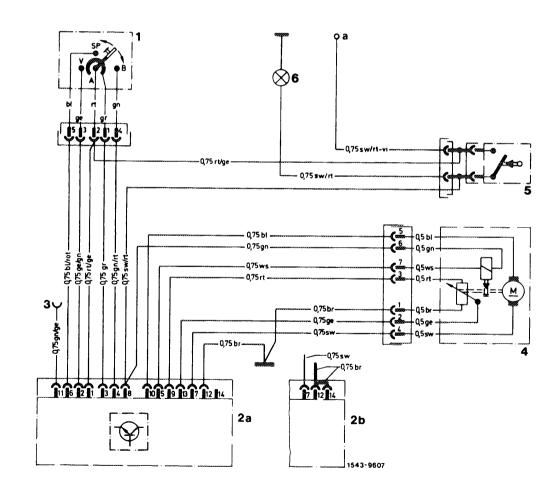


Control unit Sensor for model 123 except 123.033/053 J 1981 and 123.193 (USA) 1981

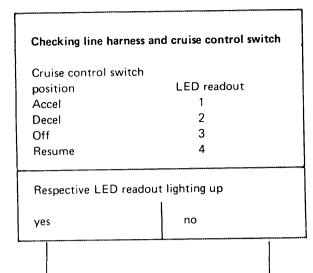


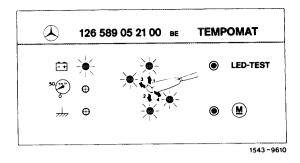


Recondition grounding line to 14-point plug.

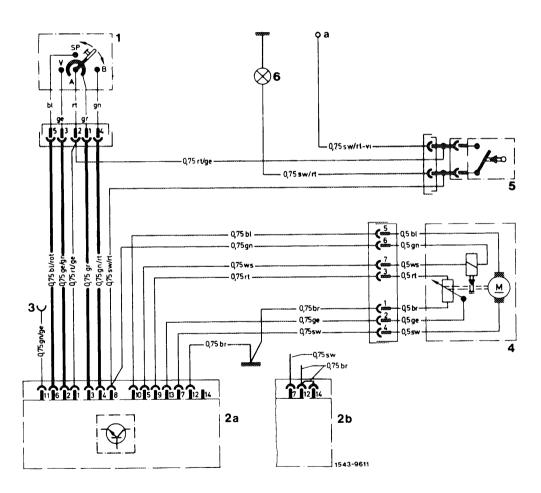


2b Control unit for Models 107 with engine 103, 116.960 (J. USA) , 116.962 except (CH) up to 83, (AUS) , 116.964 and 117 123 with engine 617.95 except (USA) 1981 126 with engine 116.961 (USA) 116.963 except (CH) (S) up to 83, (AUS) 116.965 and 117





Test lines for correct connection and passage. Replace switch.



- Switch B Ac
  - Accel Decel

  - Off
- SP Resume
- 2a Control unit 2b Control unit

Testing actuator.
Depress push-button switch M.

Regulating linkage and accelerator pedal are moving uniformly to full throttle position and remain there.

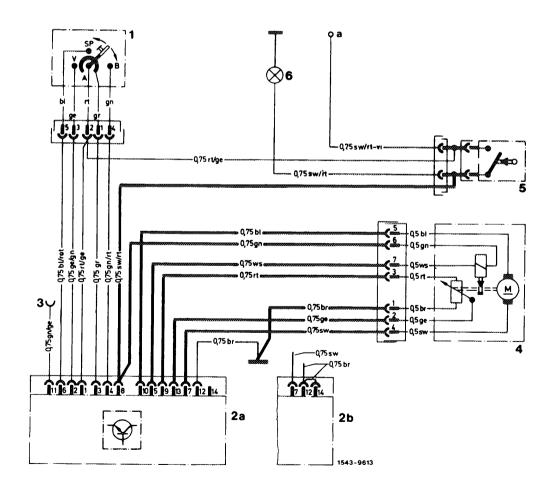
yes no

Regulating linkage and accelerator pedal are not moving:

- 1 Check regulating linkage.
- 2 Check lines for correct connection or passage, pay attention to changed voltage supply (54-580).
- 3 Replace actuator.

Regulating linkage and accelerator pedal are constantly moving back and forth:

- 1 Test contacting of plug connection line harness/actuator harness.
- 2 Replace actuator.



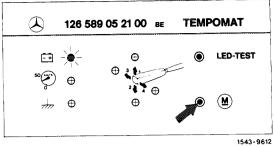
Actuator

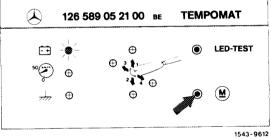
5 Stop lamp switch

2 Control unit

Wiring diagram up to 08/81

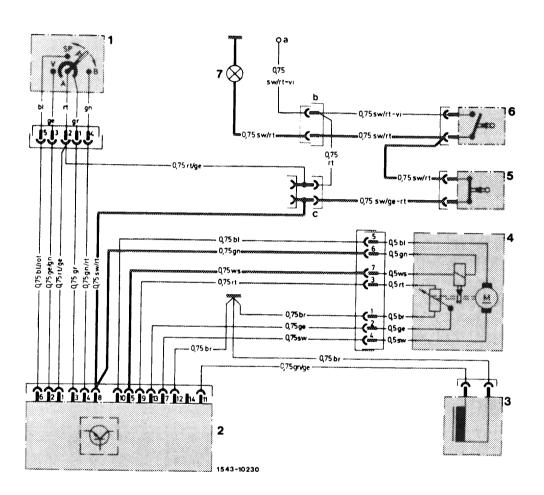
Test cruise control cutout while braking. Depress push-button  $\mathbf{\underline{M}}$ . Regulating linkage and accelerator pedal in full throttle position! Push brake pedal. Regulating linkage and accelerator pedal are immediately moving into idle position. Then release push-button switch. no yes Test regulating linkage for easy operation. Replace actuator. Test cruise control cutout while declutching (manual transmission only). Pushbutton M is pushed. Regulating linkage and accelerator pedal are in full throttle position! Depress clutch pedal. Regulating linkage and accelerator pedal will move immediately into idle position. Then release pushbutton switch. no yes





Lines are shorted.

Switch on clutch pedal defective.



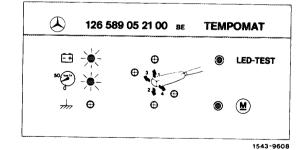
Test harness and cruise control connection of electronic speedometer, speed readout should be in order.

Models 107, 123.033/053 ① 1981, 123.193 ( 1981) and 126, drive vehicle at max. 50 km/h.

LED readout flashes or lights up.

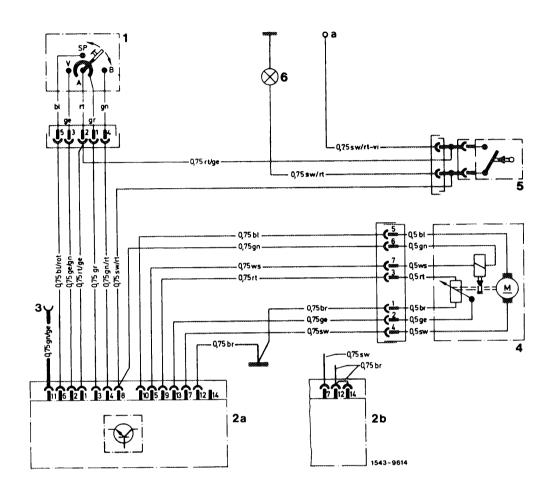
yes

no



Test lines for correct connection and passage.

Replace speedometer.

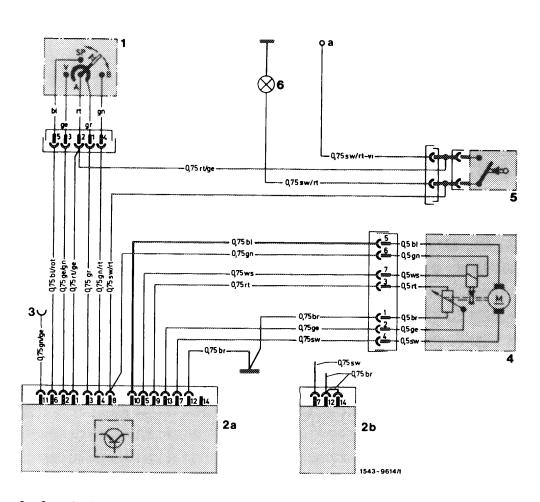


- Control unit Control unit Cruise control connection on speedometer

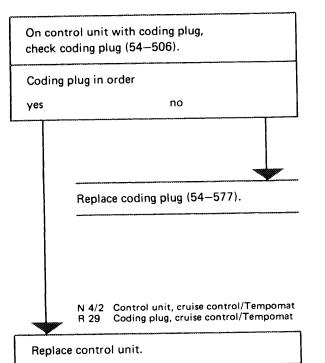
Disconnect test adapter.

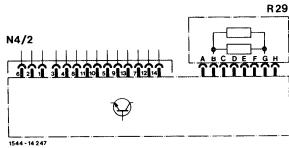
End of test.

Check blue line from plug connection actuator jack 5 to plug connection control unit plug 10 for ground connection. Ground connection no yes Recondition blue line or replace.



- 2a Control unit 2b Control unit 4 Actuator





End of test.